

Application No.: 10/688,608
Amendment dated: November 11, 2005
Reply to Office Action of August 10, 2005
Attorney Docket No.:0012.0001US1

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (cancelled)
5. (currently amended) A system as claimed in claim 10, wherein A fast handoff scheme that does not require the mobile device to terminal does not register in the wide-area cellular wireless carrier network as it moves from the local area network into the wide-area cellular wireless carrier network in which and the mobile device terminal inherits the call parameters of the controller proxy device, which is the gateway, and switches its radio to the new cellular carrier network using the call parameters without experiencing interruption in the call connection.
6. (currently amended) A system as claimed in claim 10, wherein the controller implements A method that permits migration to VoIP without the need for deploying expensive VoIP switching infrastructure, comprising implementing the TDM-to-VoIP and VoIP-to-TDM conversion in the gateway.
7. (currently amended) A flexible method of routing calls originating within an enterprise, comprising: ~~Such calls can be forwarded as follows:~~
 - ~~forwarding the calls to the PSTN via the PBX;~~
 - forwarding the calls to ~~the a~~ cellular wireless network via ~~the a~~ cellular proxy Cellular Proxy; and
 - the cellular proxy forwarding the calls from the cellular wireless network to the Internet or a private IP network via the an enterprise router using a virtual private network (VPN).

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8. (cancelled)

9. (cancelled)

10. (new) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

a dual mode mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and

a controller that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network and routes calls received from the cellular carrier network to the terminal over the wireless local area network.

11. (new) A system as claimed in claim 10, wherein the calls from the cellular carrier network are received via a fixed radio terminal of the controller.

12. (new) A system as claimed in claim 10, wherein the mobile terminal is assigned two telephone numbers, one for the cellular carrier network and one for a private branch exchange.

13. (new) A system as claimed in claim 12, wherein calls placed to the telephone number of the cellular carrier network are received by the controller and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the local area network and calls placed to the telephone number of the private branch exchange are received by the controller and routed to the terminal via the wireless local area network when the mobile terminal is on the local area network.

14. (new) A system as claimed in claim 10, wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful.

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15. A system as claimed in claim 10, wherein calls are monitored for call quality over the wireless local area network.

16. (new) A system as claimed in claim 15, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the cellular carrier network.

17. A system as claimed in claim 16, wherein if the call is on a phone number of a private branch, when mobile terminal is switching to communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

18. A system as claimed in claim 17, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.

19. A system as claimed in claim 16, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.

20. A system as claimed in claim 10, wherein calls are monitored for call quality over the cellular carrier network.

21. A system as claimed in claim 20, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the wireless local area network if available.

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22. A system as claimed in claim 21, wherein when the call quality degrades to the threshold, the controller monitors communications for the mobile terminal on the cellular carrier network maintaining the call and sends communications to the mobile terminal via the local area network and communications from the mobile terminal to the cellular carrier network via a fixed antenna.